

**Notice of Allowability**

Application No.

10/043,193

Applicant(s)

SEIKI ET AL.

Examiner

Art Unit

Tarifur R Chowdhury

2871

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 09/04/03.
2. ☒ The allowed claim(s) is/are 1-24.
3. ☒ The drawings filed on 14 January 2002 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- \* Certified copies not received: \_\_\_\_.
5. ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☐ CORRECTED DRAWINGS must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No. \_\_\_\_.
- (b) ☐ including changes required by the proposed drawing correction filed \_\_\_\_, which has been approved by the Examiner.
- (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. \_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet.

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- 1 ☐ Notice of References Cited (PTO-892)
- 3 ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 5 ☐ Information Disclosure Statements (PTO-1449), Paper No. \_\_\_\_.
- 7 ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 2 ☐ Notice of Informal Patent Application (PTO-152)
- 4 ☐ Interview Summary (PTO-413), Paper No. \_\_\_\_.
- 6 ☒ Examiner's Amendment/Comment
- 8 ☒ Examiner's Statement of Reasons for Allowance
- 9 ☐ Other

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Eckhard H. Kuesters on 10/17/03.

The application has been amended as follows:

In claim 1, line 3, "arrayed on a first area" has been changed to --arrayed on at least one continuous first area--.

In claim 1, line 5, "arrayed on a second area" has been changed to --arrayed on at least one continuous second area--.

In claim 1, line 6, "being different from" has been changed to --being spaced apart from--.

In claim 14, line 3, "arrayed on a first area" has been changed to --arrayed on at least one continuous first area--.

In claim 14, line 6, "arrayed on a second area" has been changed to --arrayed on at least one continuous second area--.

In claim 14 line 7, "being different from" has been changed to --being spaced apart from--.

**The Title has been changed as follows:**

--Transflective liquid crystal display--

***Allowable Subject Matter***

2. Claims 1-24 are allowed.
3. The following is an examiner's statement of reasons for allowance:
4. As to claim 1, the prior arts of record do not anticipate or render obvious to one skilled in the art a liquid crystal display device comprising first and second pixel electrodes arrayed on at least one continuous first area and at least one continuous second area respectively (corresponds to page 24, lines 17-24 of the instant application), wherein the second area is spaced apart from the first area, a first common electrode and a second common electrode facing the first and second pixel electrodes respectively and wherein a first display region corresponds to the first area and displays an image by light reflection mode and a second display region corresponds the second area and displays an image by light transmission mode.
5. As to claim 9, the prior arts of record do not anticipate or render obvious to one skilled in the art a liquid crystal display comprising first and second pixel electrodes arrayed on a first and second area respectively wherein the second area is different from the first area, a first and a second common electrode facing the first and second pixel electrodes respectively, and wherein each of the first pixel electrodes is formed of a reflecting conductive film, and each of the second pixel electrodes is formed of a reflective conductive film provided with at least one opening.
6. As to claim 14, the prior arts of record do not anticipate or render obvious to one skilled in the art a liquid crystal display device comprising first and second pixel electrodes arrayed on at least one continuous first area and at least one continuous

second area respectively, wherein the second area is spaced apart from the first area, a reflecting film interposed between the first pixel electrodes and the first substrate, a first common electrode and a second common electrode facing the first and second pixel electrodes respectively and wherein each of the first pixel electrodes and the second pixel electrodes is formed of a transparent conductive film.

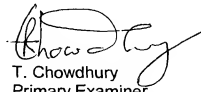
7. The closest reference, USPAT 6,195,140 (Kubo) discloses a transfective liquid crystal display wherein a pixel electrode that is made of a transparent conductive film and a metal film is formed on a first substrate and a continuous common electrode formed on a second substrate. Therefore, Kubo alone or in combination fail to teach or suggest a transfective liquid crystal display wherein a first and second pixel electrodes arrayed on at least one continuous first area and at least one continuous second area respectively (corresponds to page 24, lines 17-24 of the instant application), wherein the second area is spaced apart from the first area, a first common electrode and a second common electrode facing the first and second pixel electrodes respectively. Further, it is known for a transfective display to have pixel electrodes with a transmissive region and a reflective region by having one reflecting electrode and one transmissive electrode. Similarly two transmissive electrodes with a reflector between the electrode and the substrates also provide transfective display. Further, a reflective electrode having opening to provide transfective mode is also known in the art. However, both the pixel electrode being made of reflective material with only one of the pixel electrode being provided with an opening in a transfective display is considered novel.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tarifur R Chowdhury whose telephone number is (703) 308-4115. The examiner can normally be reached on M-Th (6:30-5:00) Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on (703) 305-3492. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.



T. Chowdhury  
Primary Examiner  
Technology Center 2800

TRC  
October 18, 2003